IN THE CLAIMS:

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1. (Currently Amended) A pressure welding machine comprising:

with a frame (10),;

two welding heads (13, 14), which are movable along a feed axis (41), and;

with two adjusting units (17, 18) with feed drives (23) for said welding heads (13, 14).

characterized in that said two adjusting units (17, 18) are being mounted axially movably at the same said frame (10);

a common adjusting element; and

an adjusting drive, said adjusting units being [[are]] connected among one another to [[an]] said adjusting drive (25) by means of [[a]] said common adjusting element (26) and being [[are]] supported.

- 2. (Currently Amended) A pressure welding machine in accordance with claim 1, characterized in that wherein said adjusting element (26) is designed as a continuous spindle(27) with two threads (28, 29), which are directed in opposite directions and are connected to nuts (21, 22) at said adjusting units (17, 18).
- 3. (Currently Amended) A pressure welding machine in accordance with claim 1 or 2, characterized in that wherein said threads (28, 29) are designed as motion threads, especially as comprising ball or trapezoid threads.

- (Currently Amended) A pressure welding machine in accordance with claim 1, 2 or
 characterized in that wherein said spindle (27) is arranged under said welding heads (13, 14) and said adjusting units (17, 18) in [[said]] machine bed (11) of said frame.
- (Currently Amended) A pressure welding machine in accordance with one of the
 above claims claim 1, characterized in that wherein said adjusting drive (25) has a controllable
 motor (30), especially comprising an electric motor, for driving said spindle (27).
- 6. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 1, characterized in that wherein said frame (10) has a carriage guide (12) for the positive-locking mounting and guiding of travel carriages (14, 16, 19, 20) of the welding heads (13, 14) and said adjusting units (17, 18).
- 7. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 6, characterized in that said pressure welding machine (1) has further comprising a mobile central clamping device (5) for a central workpiece (2), which is mounted movably at said carriage guide (12) and guided between said welding heads (13, 14).
- 8. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 7, characterized in that wherein said central clamping device (5) has two spaced workpiece holders (6, 7), which have holder carriages (8, 9) mounted movably at said

carriage guide (12).

9. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 1, characterized in that wherein said workpiece holders (6, 7) are connected to their said respective associated adjusting unit (17, 18) by a carriage adjuster (31, 32).

10. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 9, characterized in that wherein said carriage adjusters (31, 32) have a carrier (33) and a spring (34) for relative evading motions at the connection point with said workpiece holder (6, 7).

11. (Currently Amended) A pressure welding machine, especially in accordance with one of the above claims claim 1, characterized in that said pressure welding machine (1) has further comprising a measuring means (35) for measuring the true feeds and the pure workpiece shortening without elastic deformation.

12. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 11, characterized in that wherein said measuring means (35) has at least one measuring unit (36,37) arranged between a workpiece holder (6,7) and said associated welding head (13,14).

- 13. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 12, characterized in that wherein said measuring unit (36, 37) has a scale (38) and a measuring head (39), which are arranged movably in relation to one another at said workpiece holder (6, 7) and at said associated welding head (13, 14).
- 14. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 11, characterized in that wherein said measuring means (35) has a central measuring unit (40) between said workpiece holders (6, 7) and/or said welding heads (13, 14).
- 15. (Currently Amended) A pressure welding machine in accordance with one of the above claims claim 1, characterized in that characterized in that said pressure welding machine (1) is designed as further comprises a friction welding machine or as a machine for welding with moving arc.
- 16. (Currently Amended) A method for pressure welding a plurality of said workpieces (2, 3, 4) along a, preferably common feed axis (41) by means of , the method comprising:

providing a pressure welding machine (+) with a frame (+0), two said welding heads (+3, +4) movable along a feed axis (+1), and two said adjusting units (+7, +8) with feed drives (+3) for said welding heads (+3, +4), characterized in that;

moving said outer workpieces (3, 4) are moved relative to one another by said two adjusting units (17, 18) mounted axially (41) movably at said frame (10), wherein;

mutually supporting said adjusting units (17, 18) are mutually supported in an adjustable manner while absorbing the pressure welding forces in a closed system of forces.

17. (Currently Amended) A method in accordance with claim 16, characterized in that wherein said adjusting units (17, 18) and a central clamping device (5) are positioned simultaneously and synchronously for a central workpiece (2).

18. (Currently Amended) A method in accordance with claim 16-or 17, characterized in that wherein the true feeds and the workpiece shortenings are measured during pressure welding without the elastic deformations of said central workpiece (2) that occur during upsetting.